OIPE IAP95
OCT 15 2007
PATENT & TRADEMARK OFFICE

FIG.1 (PRIOR ART)

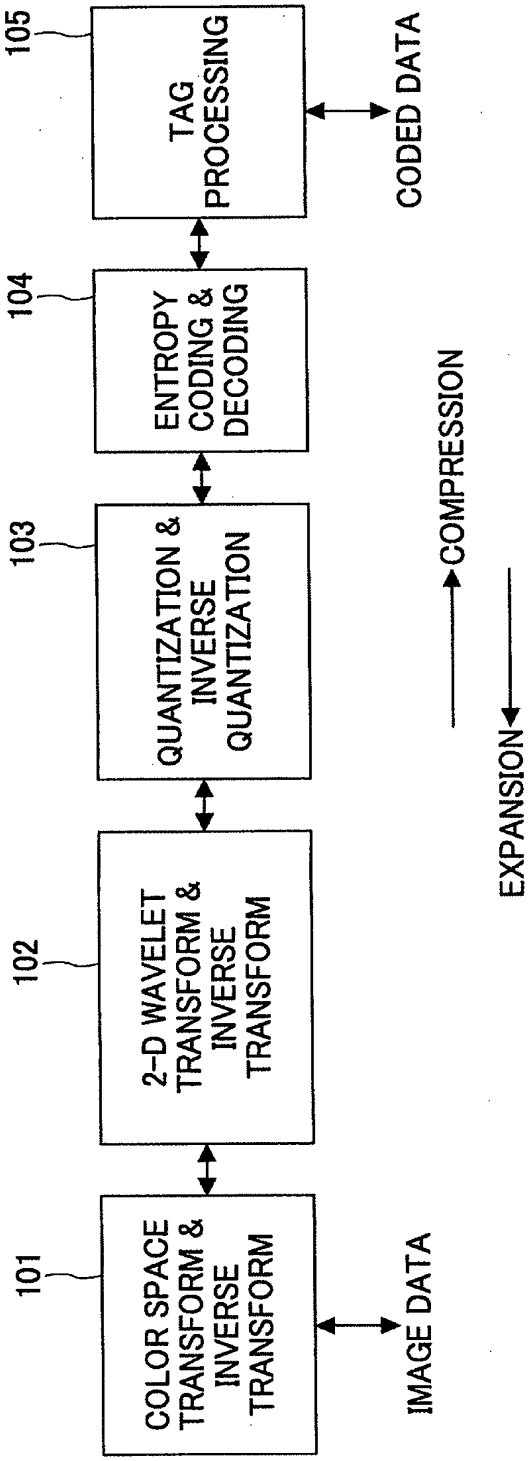


FIG.2 (PRIOR ART)

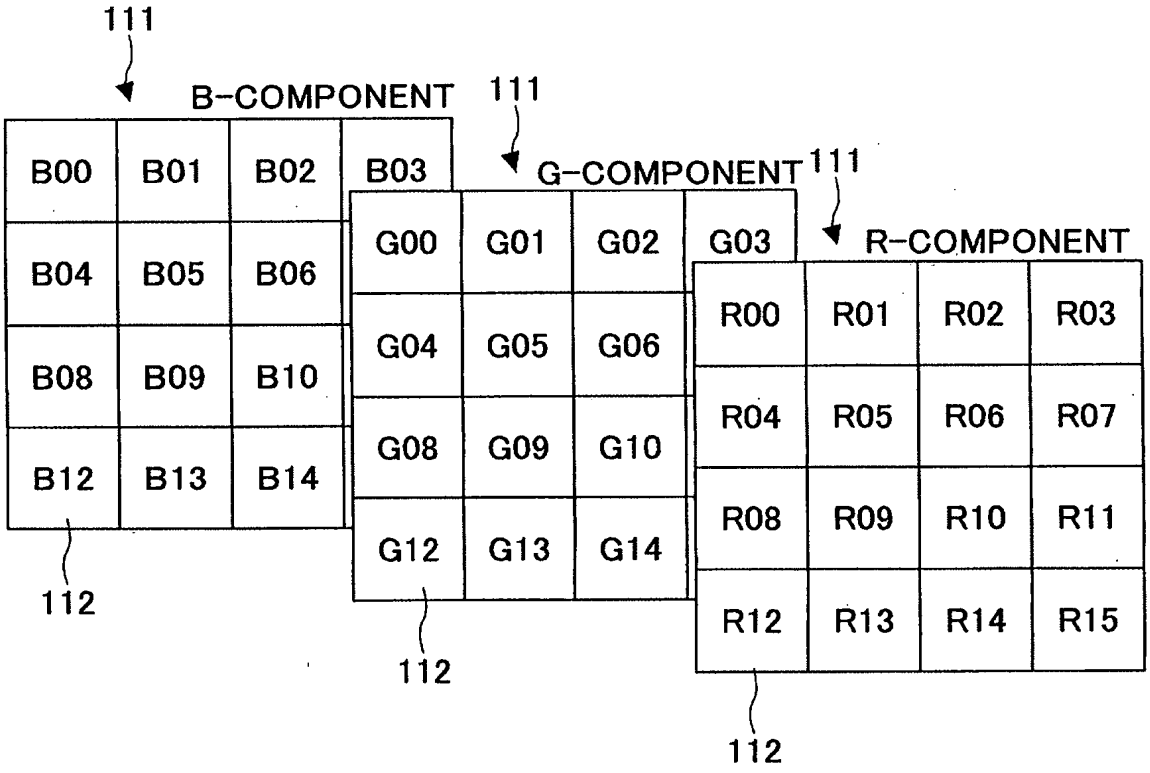
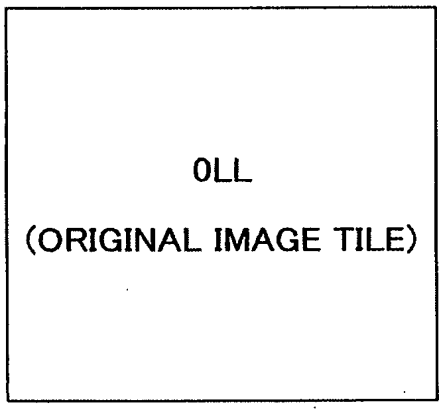
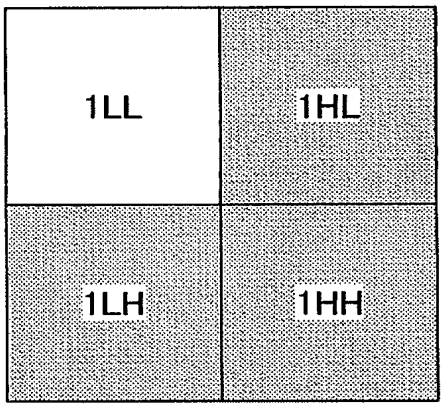


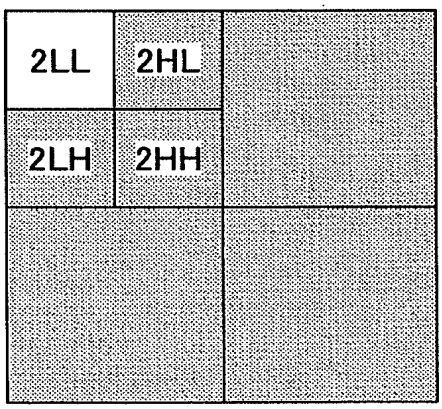
FIG.3 (PRIOR ART)



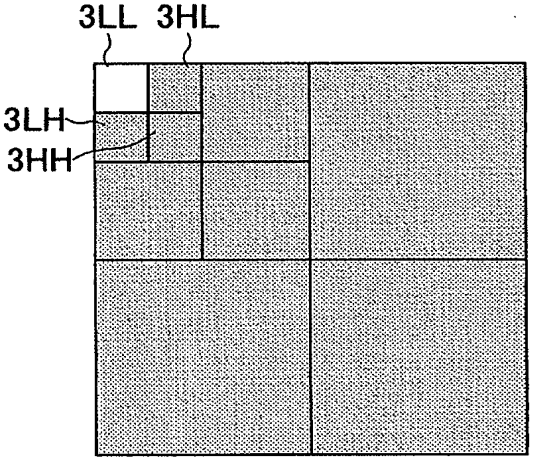
DECOMPOSITION_LEVEL_0
120



DECOMPOSITION_LEVEL_1
121

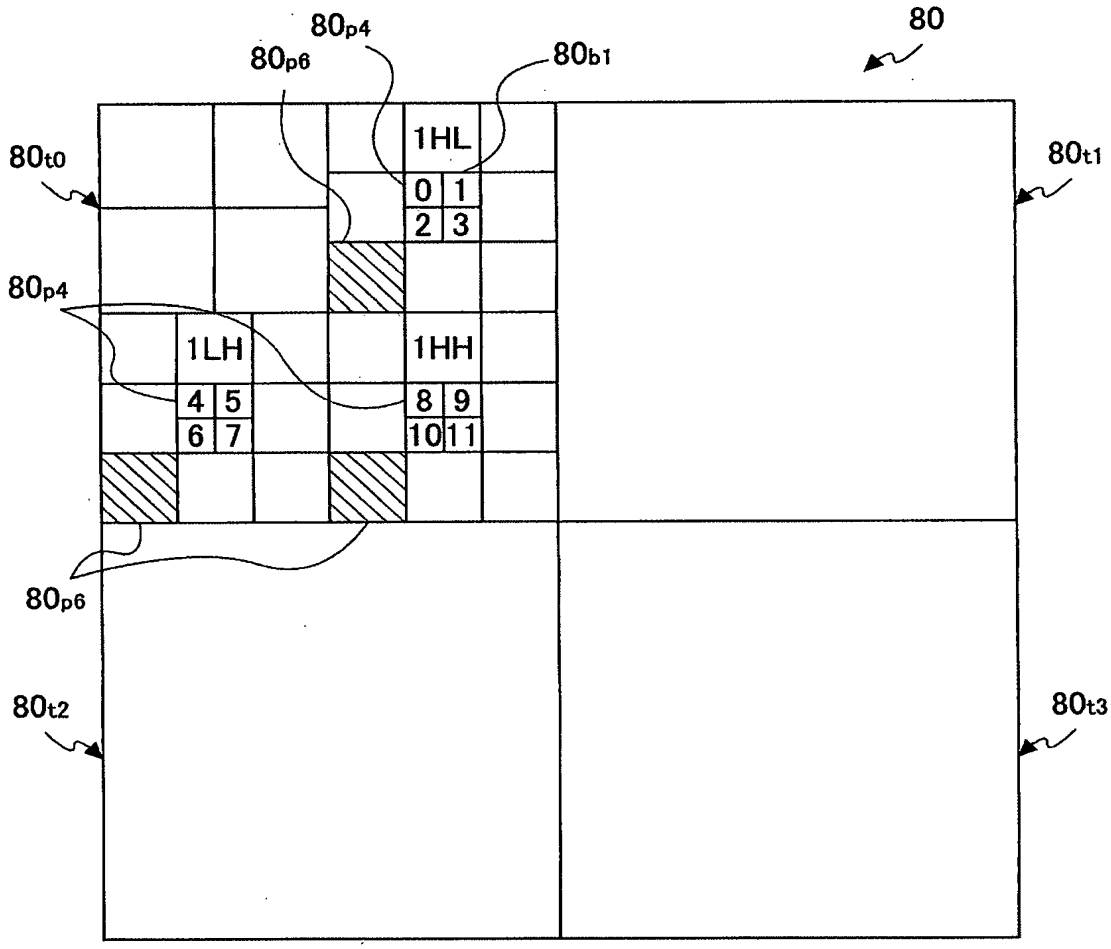


DECOMPOSITION_LEVEL_2
122



DECOMPOSITION_LEVEL_3
123

FIG.4 (PRIOR ART)



DECOMPOSITION_LEVEL_1

121

FIG.5 (PRIOR ART)

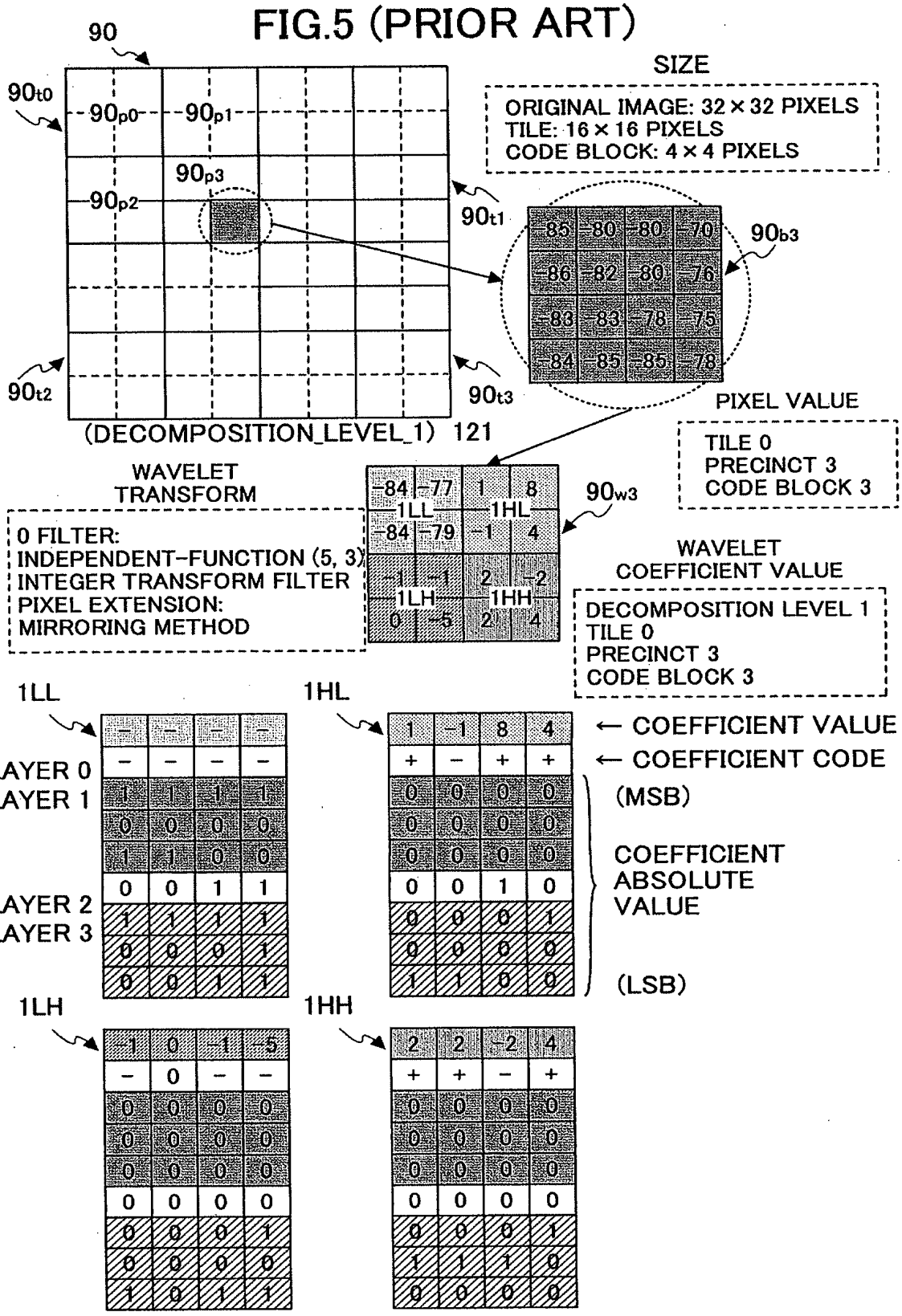


FIG.6 (PRIOR ART)

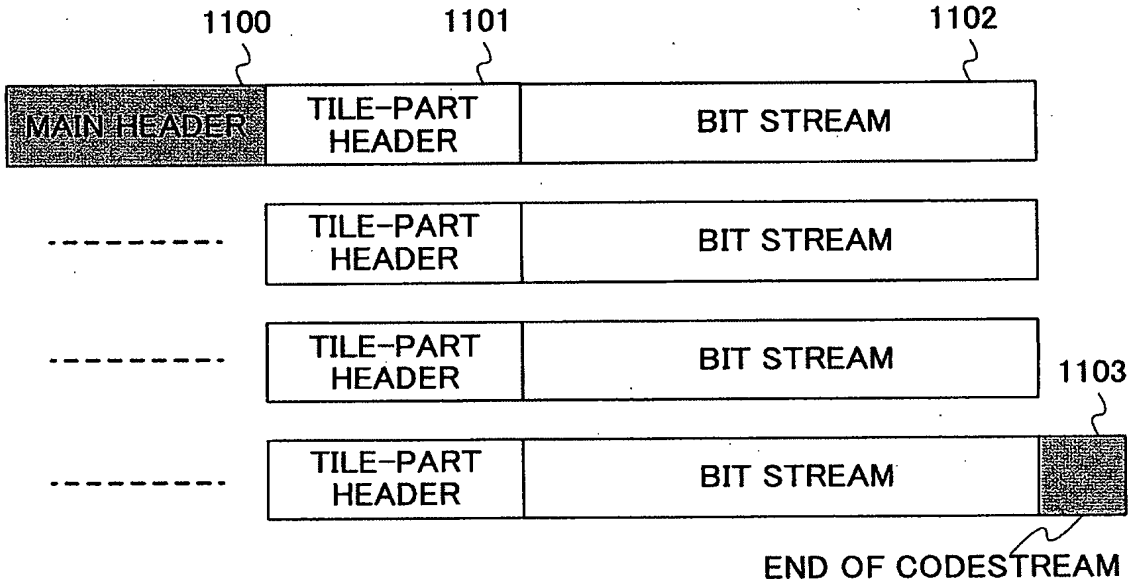


FIG.7 (PRIOR ART)

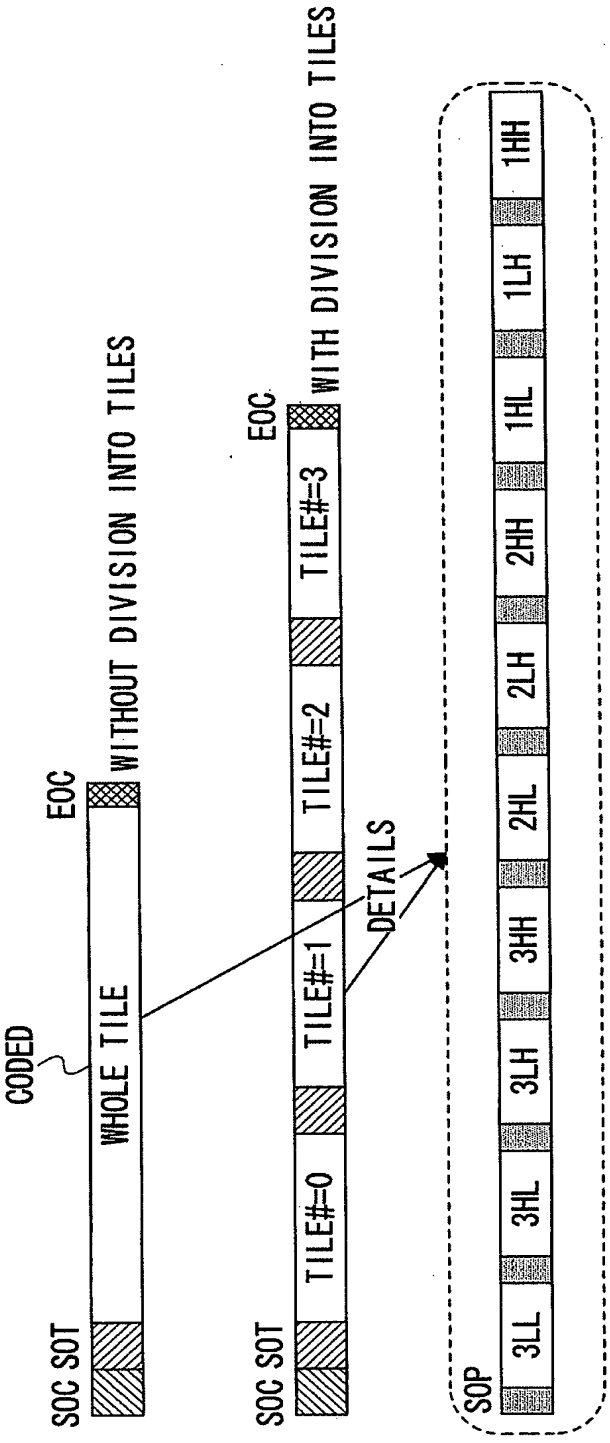


FIG.8

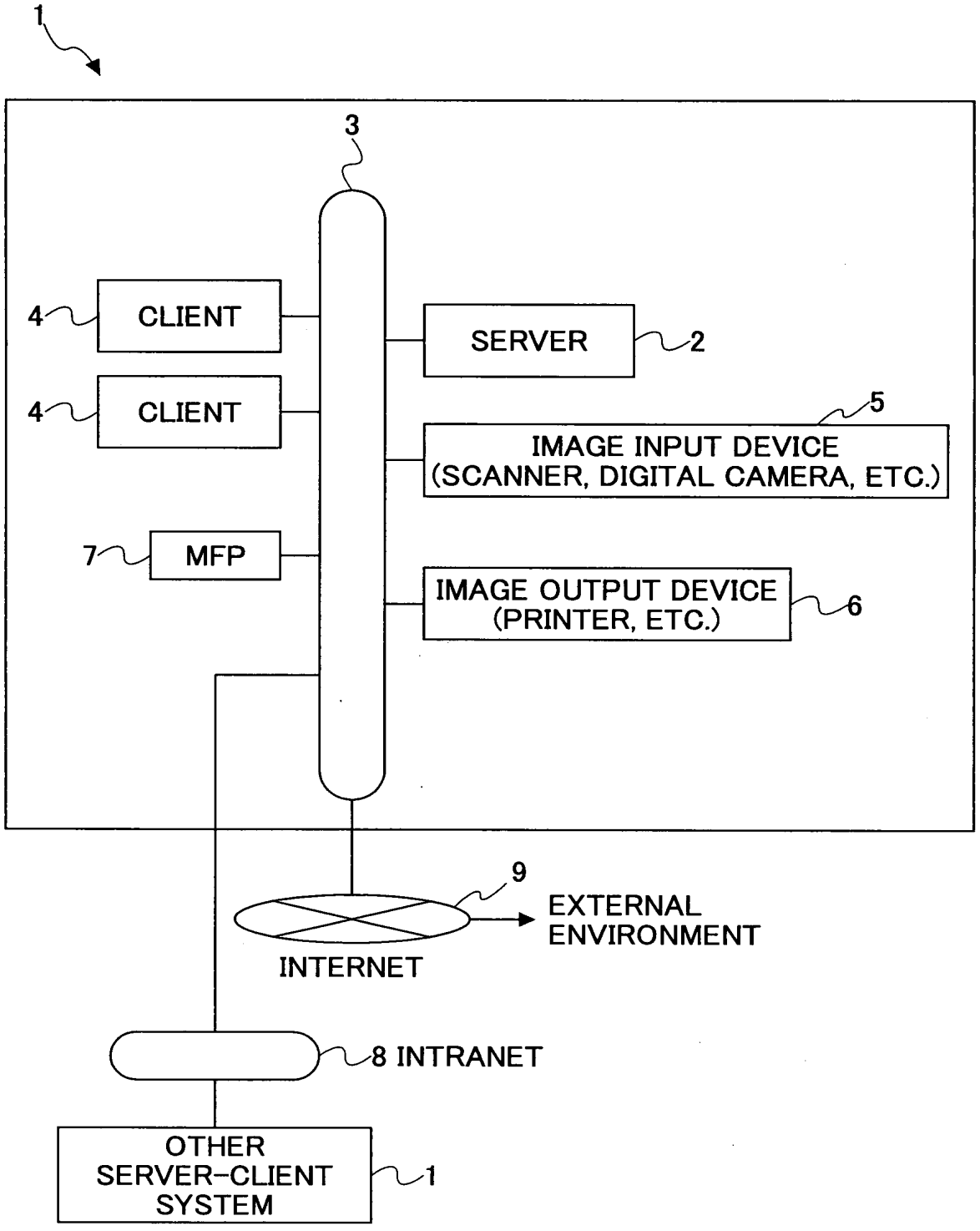

1
3
4
CLIENT
4
CLIENT
SERVER
2
5
IMAGE INPUT DEVICE
(SCANNER, DIGITAL CAMERA, ETC.)
7
MFP
IMAGE OUTPUT DEVICE
(PRINTER, ETC.)
6
9
EXTERNAL
ENVIRONMENT
INTERNET
8 INTRANET
OTHER
SERVER-CLIENT
SYSTEM
1

FIG.9

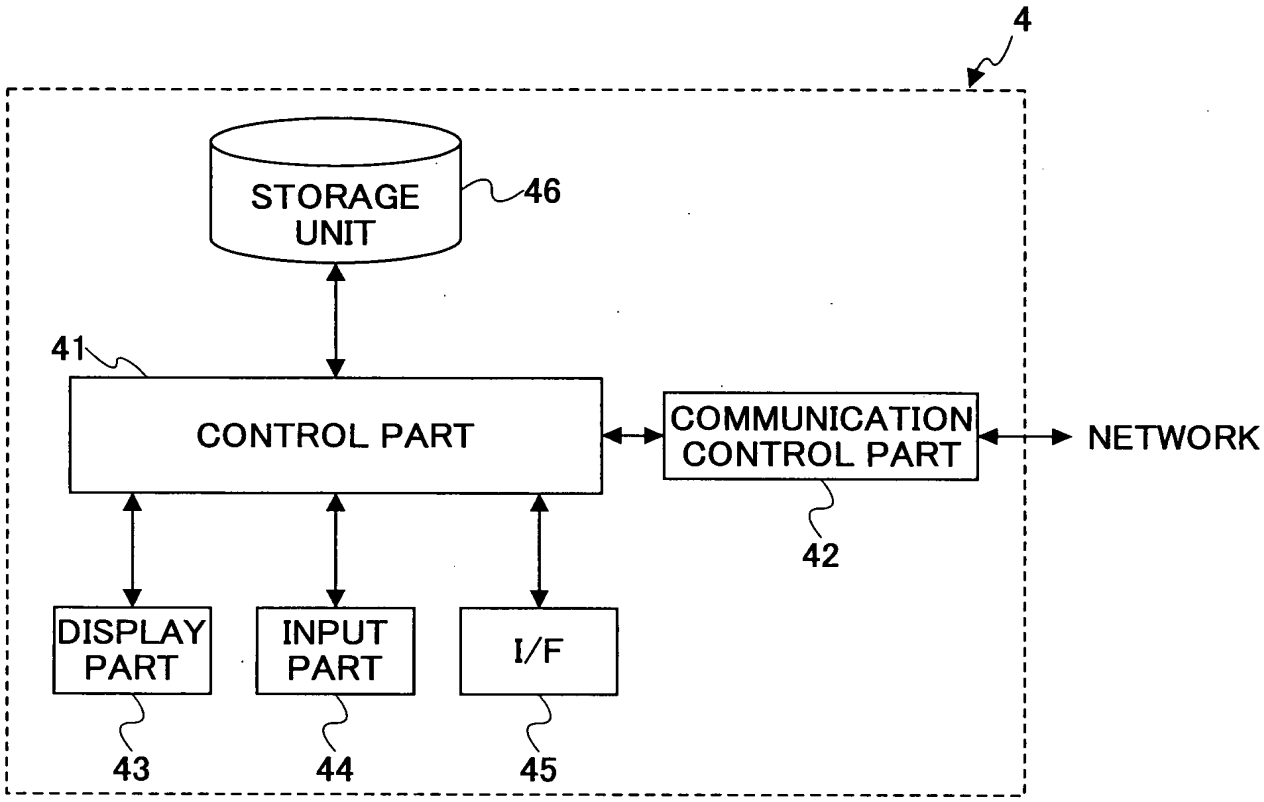

4
STORAGE UNIT
46
41
CONTROL PART
COMMUNICATION CONTROL PART
NETWORK
42
DISPLAY PART
INPUT PART
I/F
43
44
45

FIG.10

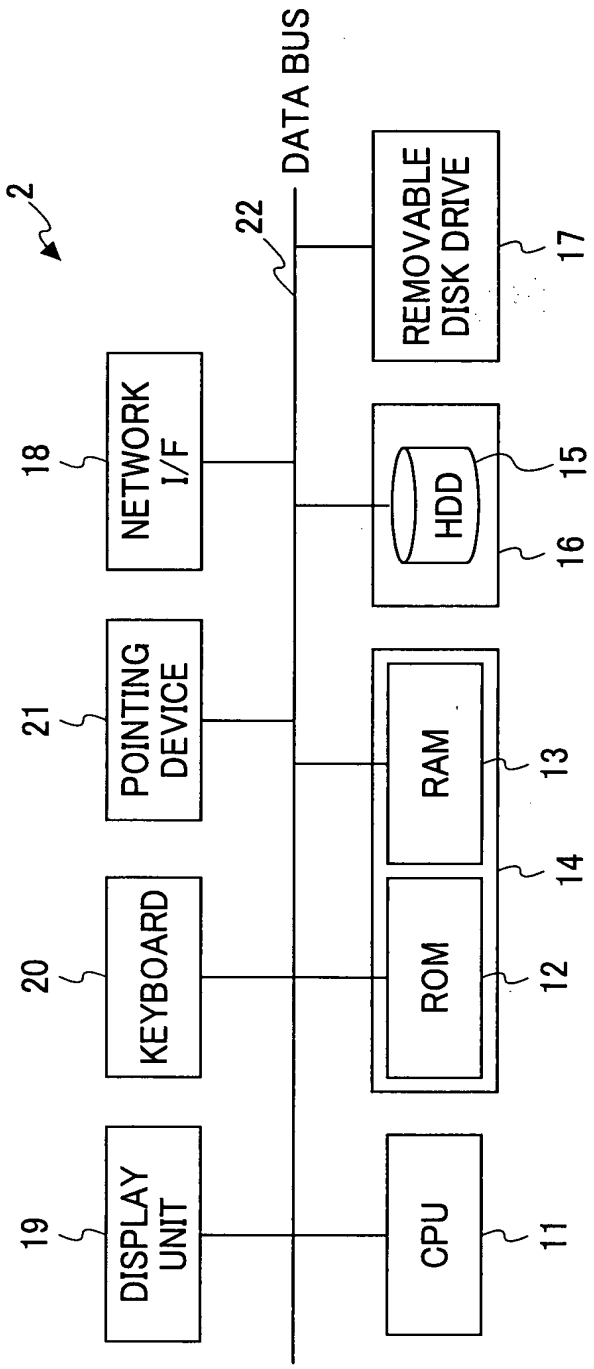

2
DATA BUS
22
REMOVABLE DISK DRIVE
17
NETWORK I/F
18
HDD
15
16
POINTING DEVICE
21
RAM
13
14
KEYBOARD
20
ROM
12
DISPLAY UNIT
19
CPU
11

FIG.11

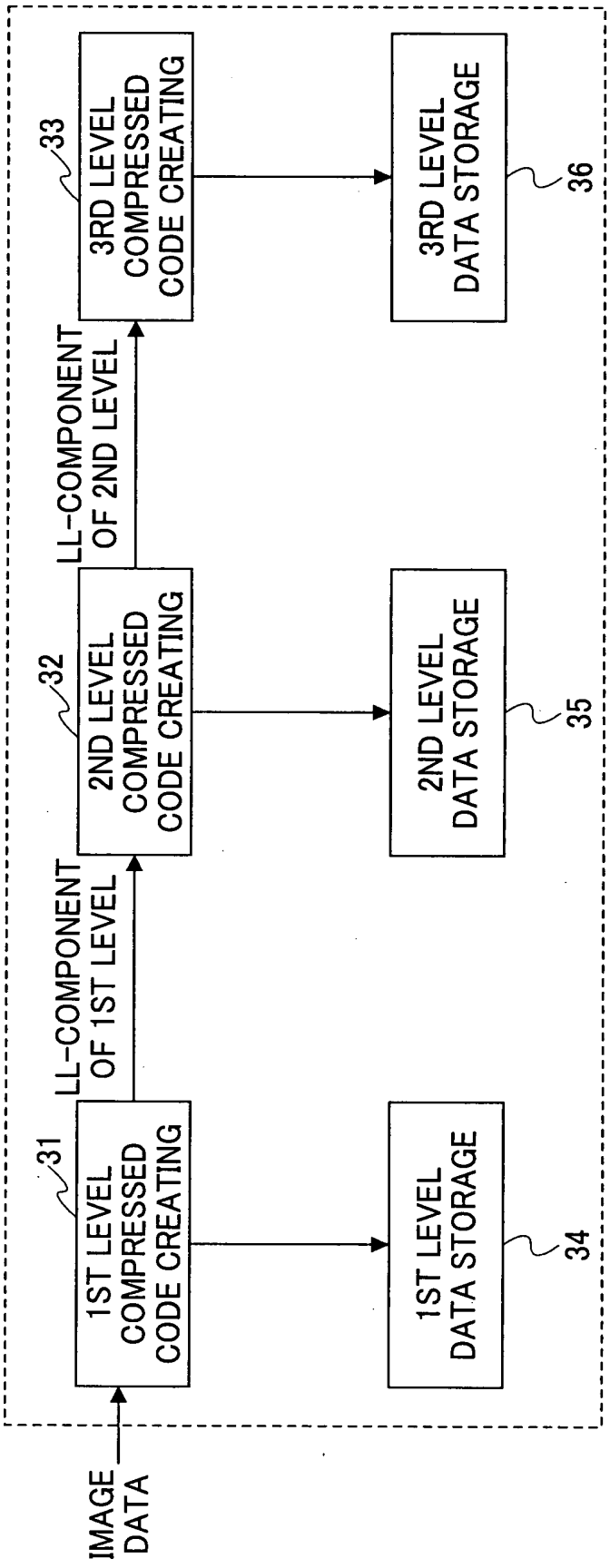

2
IMAGE DATA
31
1ST LEVEL COMPRESSED CODE CREATING
LL-COMPONENT OF 1ST LEVEL
32
2ND LEVEL COMPRESSED CODE CREATING
LL-COMPONENT OF 2ND LEVEL
33
3RD LEVEL COMPRESSED CODE CREATING
34
1ST LEVEL DATA STORAGE
35
2ND LEVEL DATA STORAGE
36
3RD LEVEL DATA STORAGE

FIG.12

1ST LEVEL DATA STORAGE 34	1LL, 1HL, 1LH, 1HH
2ND LEVEL DATA STORAGE 35	2LL, 2HL, 2LH, 2HH
3RD LEVEL DATA STORAGE 36	3LL, 3HL, 3LH, 3HH

FIG.13

1ST LEVEL DATA STORAGE 34	1HL, 1LH, 1HH
2ND LEVEL DATA STORAGE 35	2HL, 2LH, 2HH
3RD LEVEL DATA STORAGE 36	3LL, 3HL, 3LH, 3HH

FIG.14

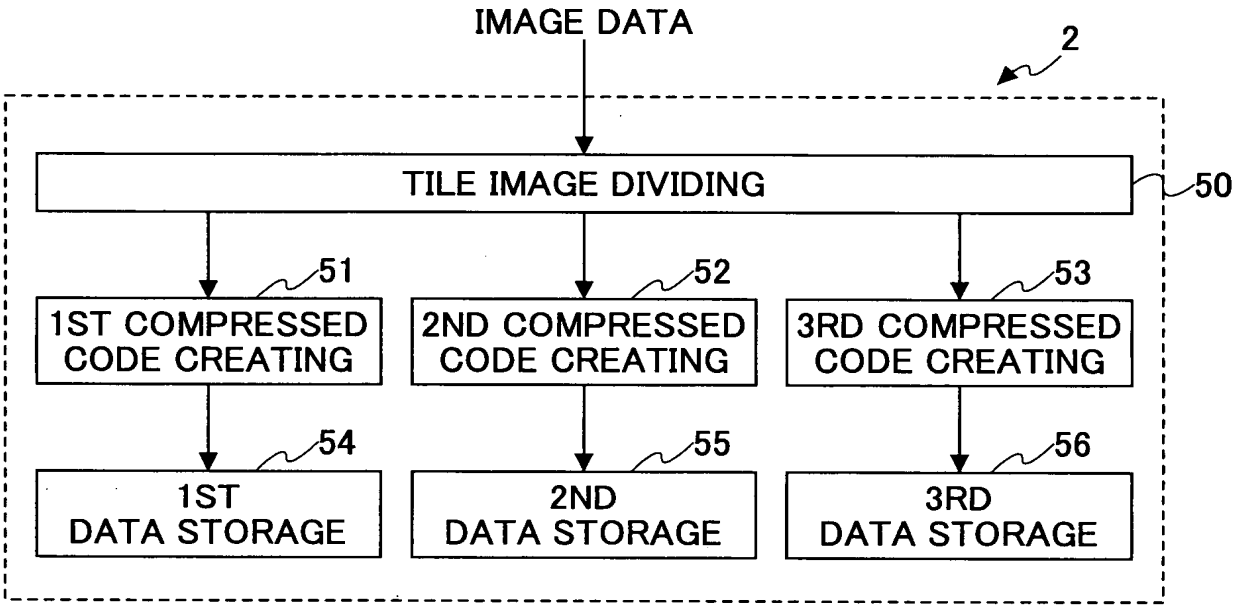


IMAGE DATA
2
TILE IMAGE DIVIDING
50
51
52
53
1ST COMPRESSED CODE CREATING
2ND COMPRESSED CODE CREATING
3RD COMPRESSED CODE CREATING
54
55
56
1ST DATA STORAGE
2ND DATA STORAGE
3RD DATA STORAGE

FIG.15

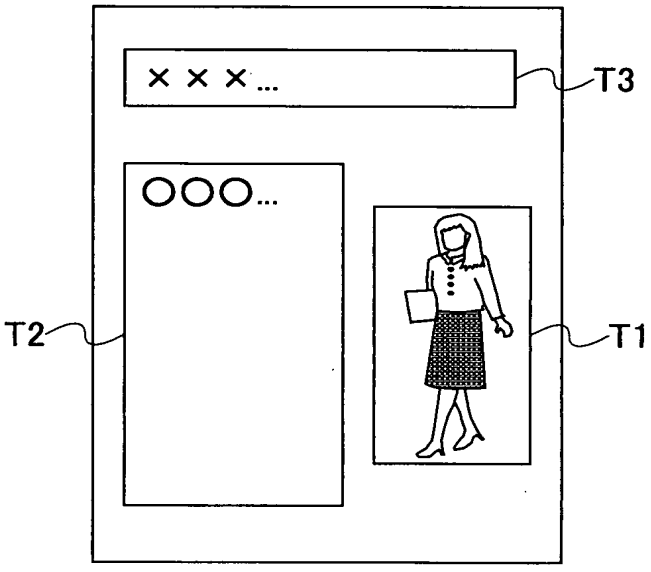

× × × ...
T3
OOO...
T2
T1

FIG.16

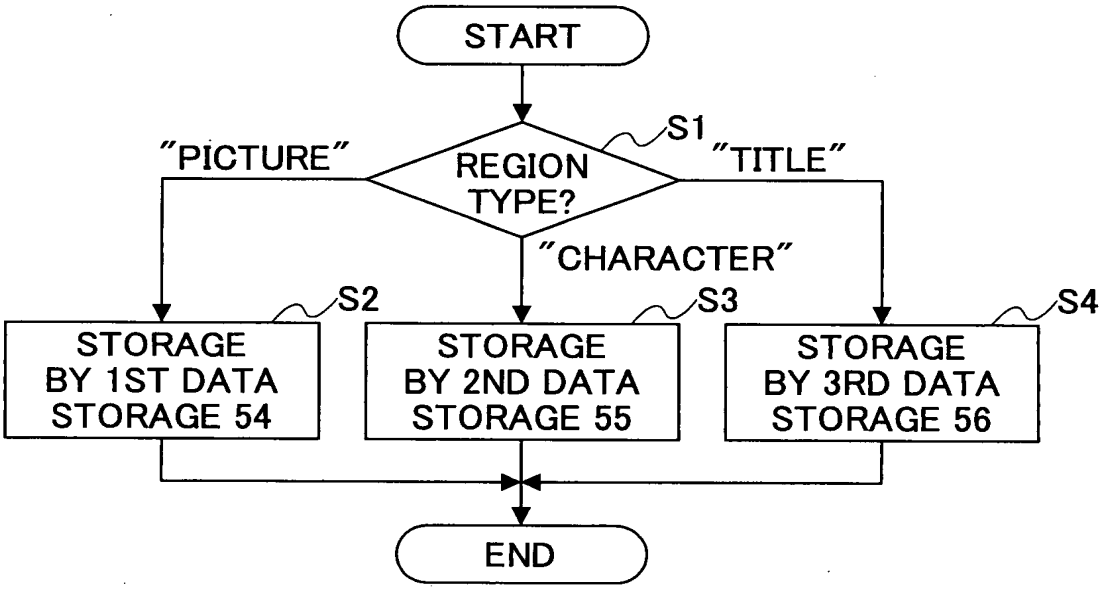

START
S1
"PICTURE"
REGION TYPE?
"TITLE"
"CHARACTER"
S2
S3
S4
STORAGE BY 1ST DATA STORAGE 54
STORAGE BY 2ND DATA STORAGE 55
STORAGE BY 3RD DATA STORAGE 56
END

FIG.17

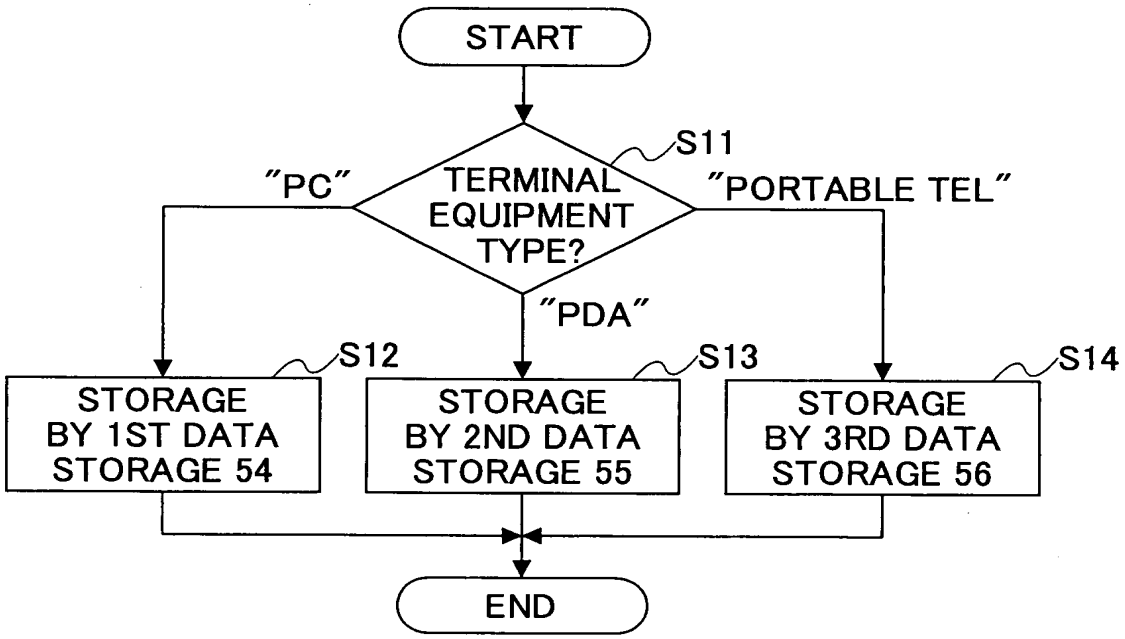

START
S11
"PC"
TERMINAL EQUIPMENT TYPE?
"PORTABLE TEL"
"PDA"
S12
S13
S14
STORAGE BY 1ST DATA STORAGE 54
STORAGE BY 2ND DATA STORAGE 55
STORAGE BY 3RD DATA STORAGE 56
END

FIG.18

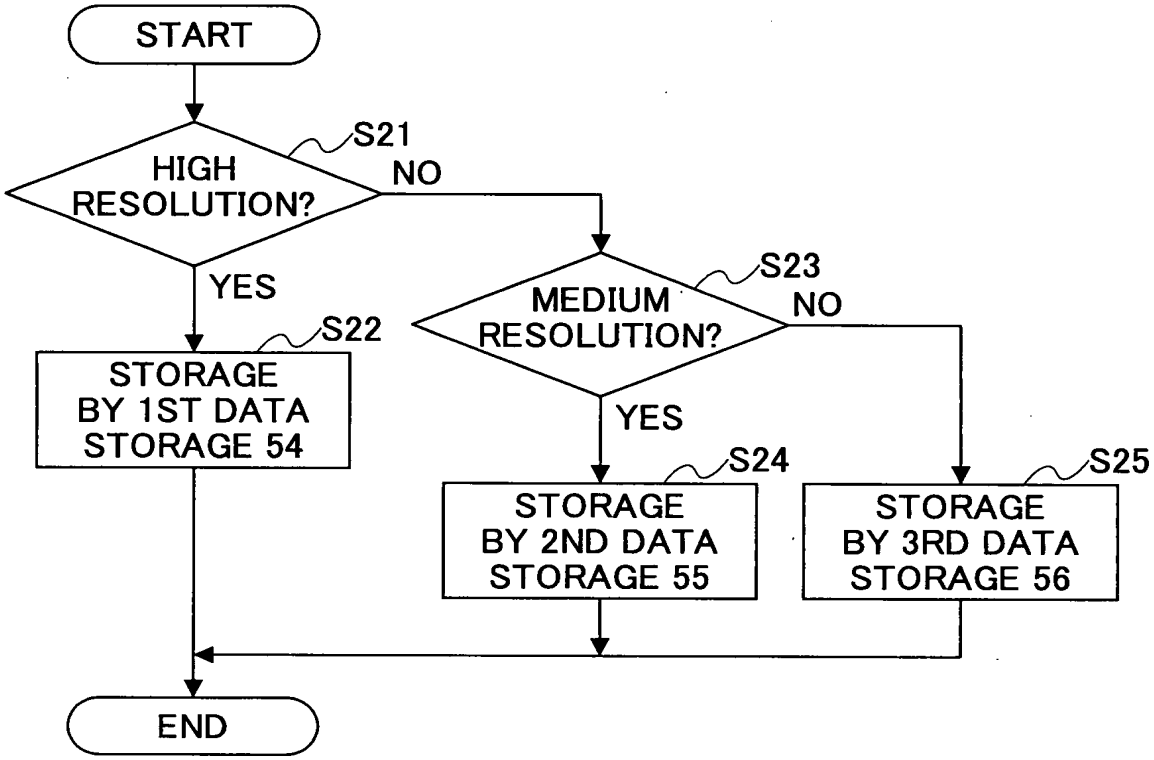

START
S21
HIGH RESOLUTION?
NO
YES
S22
STORAGE BY 1ST DATA STORAGE 54
S23
MEDIUM RESOLUTION?
NO
YES
S24
STORAGE BY 2ND DATA STORAGE 55
S25
STORAGE BY 3RD DATA STORAGE 56
END

FIG.19

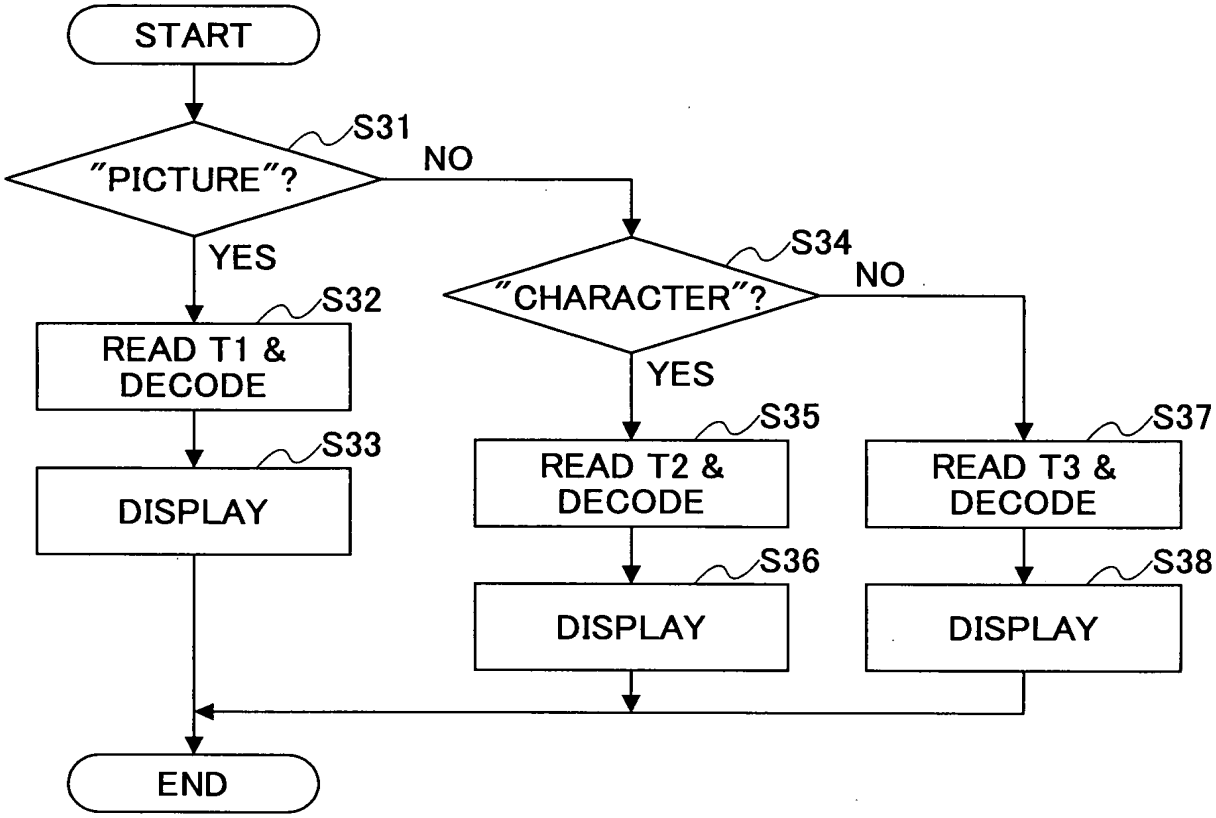

START
S31
"PICTURE"?
NO
YES
S32
READ T1 & DECODE
S33
DISPLAY
S34
"CHARACTER"?
NO
YES
S35
READ T2 & DECODE
S36
DISPLAY
S37
READ T3 & DECODE
S38
DISPLAY
END

FIG.20

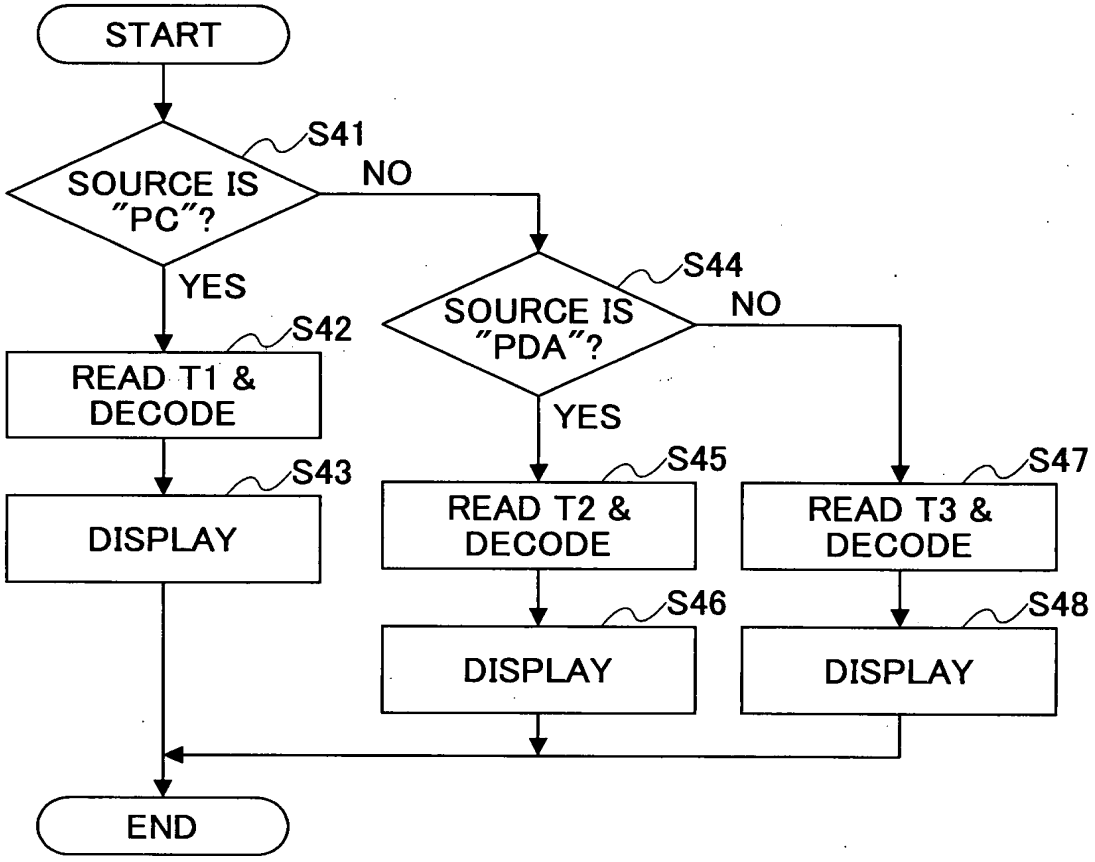
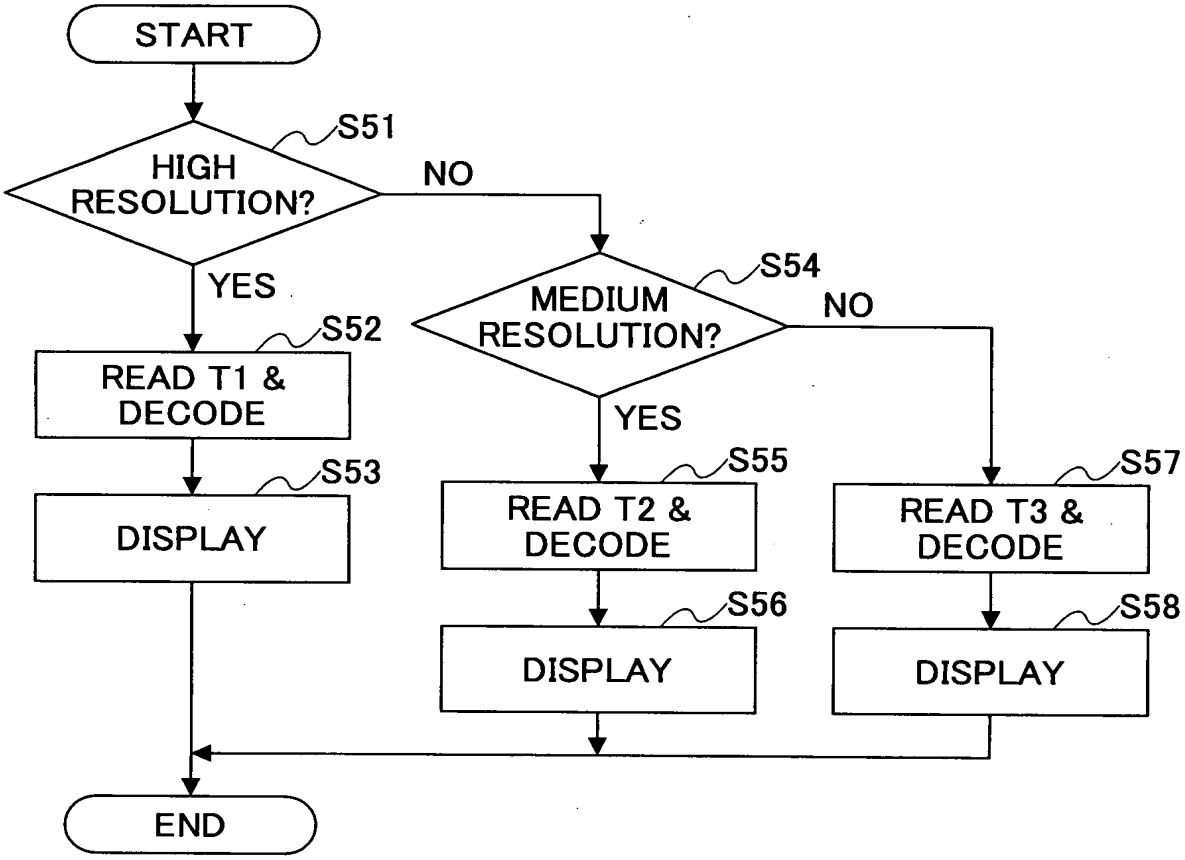

START
S41
SOURCE IS "PC"?
NO
YES
S42
READ T1 & DECODE
S43
DISPLAY
S44
SOURCE IS "PDA"?
NO
YES
S45
READ T2 & DECODE
S46
DISPLAY
S47
READ T3 & DECODE
S48
DISPLAY
END

FIG.21


START
S51
HIGH RESOLUTION?
NO
YES
S52
READ T1 & DECODE
S53
DISPLAY
S54
MEDIUM RESOLUTION?
NO
YES
S55
READ T2 & DECODE
S56
DISPLAY
S57
READ T3 & DECODE
S58
DISPLAY
END

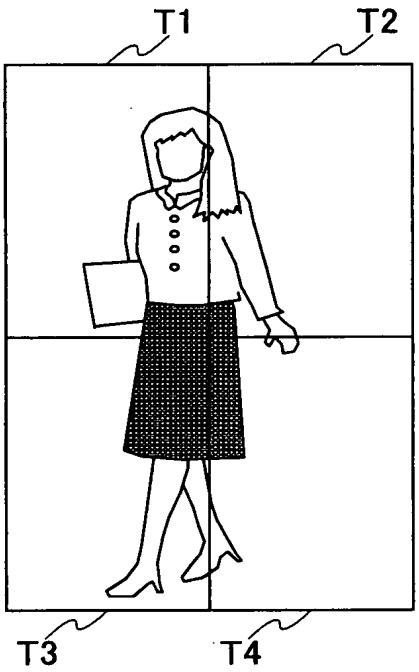



FIG.22